## **Amendments to the Claims**

This listing of claims will replace the originally filed claims in the application.

## **Listing of Claims:**

Claims 1 - 10 (cancelled)

Claim 11 (new): A method for supplying high-purity oxygen by cryogenic distillation of air from an installation comprising a first air separation unit (1) and a second air separation unit (2), the first air separation unit comprising a medium-pressure column, a low-pressure column (4A) thermally coupled to the medium-pressure column, and a mixing column (6A), in which method:

- a) air to be distilled is sent to the medium-pressure column;
- b) oxygen-enriched and nitrogen-enriched liquids are sent from the mediumpressure column to the low-pressure column;
- c) in a first step of the air separation unit, an oxygen-enriched liquid stream from the low-pressure column is sent to the top of the mixing column;
- d) in the first step, a low-purity oxygen stream is withdrawn from the top of the mixing column and at least one portion of this is sent to a first consuming unit (5);
- e) in the first step, air is sent to the mixing column;
- f) in the first step, the second air separation unit supplies high-purity oxygen to a second consuming unit (9),

## characterized in that:

- g) in a second step, in the first air separation unit, the oxygen-enriched liquid stream sent to the top of the mixing column is reduced, possibly to zero, the stream of air sent to the mixing column is reduced, possibly to zero, and the stream of low-purity oxygen withdrawn from the top of the mixing column is reduced, possibly to zero; and
- h) in the second step, a stream of high-purity oxygen is withdrawn from the bottom of the low-pressure column of the first air separation unit and sent to at least the second consuming unit.

Claim 12 (new): The method of claim 11, in which, in the second step, the second air separation unit (2) does not supply high-purity oxygen to the second consuming unit (9), or supplies part of the high-purity oxygen required by the second consuming unit.

Claim 13 (new): The method of claim 11, in which the first consuming unit (5) is a blast furnace and the second consuming unit (9) is a converter or an arc furnace.

Claim 14 (new): The method of claim 13, in which, during the first step, the blast furnace (5) is supplied with oxygen-enriched air and during the second step the blast furnace is fed either with air or with air less oxygen-enriched than that with which it is fed during the first step.

Claim 15 (new): The method of claim 11, in which the mixing column (6A) does not operate during the second step.

Claim 16 (new): The method of claim 11, in which the second consuming unit (9) is fed with oxygen only from the second air separation unit (2) during the first step and is fed with oxygen only from the first air separation unit (1) during the second step.

Claim 17 (new): An installation for supplying oxygen by cryogenic distillation of air, comprising a first air separation unit (1) and a second air separation unit (2), the first air separation unit comprising a medium-pressure column (2A), a low-pressure column (4A) thermally coupled to the medium-pressure column, and a mixing column (6A), which installation comprises:

- a) means for sending air to be distilled to the medium-pressure column;
- b) means for sending oxygen-enriched and nitrogen-enriched liquids from the medium-pressure column to the low-pressure column;
- means for sending a stream of oxygen-enriched liquid from the lowpressure column to the top of the mixing column;
- d) means for sending air to the bottom of the mixing column;
- e) means for withdrawing a stream of low-purity oxygen from the top of the mixing column and means for sending at least one portion of this to a first consuming unit (5); and
- f) means for sending high-purity oxygen from the second air separation unit to a second consuming unit (9),

## characterized in that it includes:

- g) means for reducing, possibly to zero, the stream of oxygen-enriched liquid sent to the top of the mixing column;
- h) means for reducing, possibly to zero, the air sent to the bottom of the mixing column; and

i) means for withdrawing a stream of high-purity oxygen from the bottom of the low-pressure column of the first air separation unit and means for sending this stream to the second consuming unit.

Claim 18 (new): The installation of claim 17, in which the first consuming unit (5) is a blast furnace and the second consuming unit (9) is a converter or an arc furnace.

Claim 19 (new): The installation of claim 18, which includes means for feeding the blast furnace (5) with low-purity oxygen from the first air separation unit (1) and means for stopping the low-purity oxygen being sent from the first air separation unit to the blast furnace.

Claim 20 (new): The installation of claim 16, which includes at least one high-purity oxygen compressor (13) upstream of the second consuming unit (9) and downstream of the first air separation unit (1).